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IIC EVENT ON
INNOVATION IN THE CYBER SECURITY INDUSTRY:
AI AND MACHINE LEARNING IN CYBER SECURITY
19th FEBRUARY 2025 (WEDNESDAY)

An exclusive IIC (Institution's Innovation Council) session focused on the theme of "Innovation in the Cyber Security Industry**:** AI and Machine Learning in Cyber Security" was scheduled for 19th February 2025 for the students of MBA Integrated- Second Semester & MBA 4th Sem (IT specialization) that aimed to inspire them by the rapid evolution of technology which has significantly increased the complexity and scale of cyber threats. Cyber security innovation is crucial to protecting digital assets, securing critical infrastructures, and ensuring privacy in an increasingly interconnected world. The event led by resource person Dr. Jasjeet Singh, Assistant Professor, GIBS provided an in-depth analysis of how artificial intelligence (AI) and machine learning (ML) are transforming cyber security.

The session commenced with a brief introduction by the event moderator, who welcomed and introduced Dr. Jasjeet Singh. He was given a warm welcome by Ms. Shipra Bhutani Uppal.

The event discussed how AI can automate the identification of malware and phishing attempts, and how ML enhances behavioral analysis to detect insider threats. Case studies were presented to demonstrate how AI has reduced incident response times and improved cyber security resilience. However, challenges such as the risks of adversarial AI, the potential for AI-powered cyber-attacks, and biases in machine learning models were highlighted. Ethical considerations in using AI for surveillance and security measures were also explored.

Looking towards the future, the integration of AI in Zero Trust security architectures, the emergence of quantum computing and its impact on cryptographic security, and the need for regulatory frameworks to govern AI use in cyber security were discussed. The event concluded that AI and ML are transformative forces in the cyber security landscape, offering enhanced capabilities in threat detection and response while introducing new challenges that require careful consideration. To ensure a secure digital future, organizations should invest in AI-driven security solutions, conduct continuous research to counter adversarial AI threats, and promote collaboration between governments, academia, and the private sector to establish robust AI governance frameworks. This event underscored the importance of AI and ML in strengthening cyber security defenses while addressing potential risks and ethical concerns associated with their implementation.

The interactive Q&A session was one of the most engaging aspects of the event, where students actively participated by asking questions related to how to support cyber security workforce by augmenting

human decision-making with AI-driven insights. Dr. Jasjeet Singh thoughtfully addressed each query, sharing practical advice while these technologies offer enhanced capabilities in threat detection and response, and they also introduce new challenges that require careful consideration. The industry must balance innovation with ethical considerations and regulatory compliance to ensure a secure digital future. The event concluded with enthusiastic applause from the audience, followed by vote of thanks given to the guest Dr. Jasjeet Singh, by Ms. Shipra Bhutani Uppal.

FLYER OF THE EVENT

TYPE OF EVENT	IIC EVENT
VENUE	Room No. 211
TIME & DURATION	11:00AM Onwards
CONDUCTED BY	CMS-GIBS
ORGANISED FOR	BBA MBA Integrated (Semester-2) MBA 4th Sem (IT Specialization)

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NAME OF THE COORDINATOR	Ms. Shipra B. Uppal (Co-ordinator)
ATTENDANCE	49
RESOURCE PERSON	Dr. Jasjeet Singh
OBJECTIVES OF THE EVENT	1. To highlight Enhance real-time threat detection and response capabilities. 2. To enhance adaptive security frameworks to counter evolving cyber threats. 3. To Support cyber security workforce by augmenting human decision-making with AI-driven insights
LEARNING OUTCOME	1. Understanding the role of AI and ML in modern cyber security frameworks. 2. Gaining insights into AI-driven threat detection and response mechanisms. 3. Recognizing the ethical challenges and biases associated with AI in cyber security. 4. Learning about future trends, including quantum computing and Zero Trust security.
SHORTFALL DURING EVENT	Not as such
LINK OF ONLINE VIDEO	https://youtu.be/W0uGUx2n3LQ

PREPARED & SUBMITTED BY: Ms. SHIPRA B. UPPAL, ASSISTANT PROFESSOR, GIBS